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Abstract

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This invention pertains to the incorporation of a unitary infrared transmitting glass optical fiber within a jam head as part of an infrared missile seeking protection system for a movable platform. The jam head includes a first part rotatable around a first axis and a second part rotatably connected to said first part and rotatable around a second axis, a viewing port in said first part for viewing an object, at least one reflecting surface for conveying an image through said port, a camera optically connected via said at least one reflecting surface to said camera and a unitary glass fiber of constant core diameter passing through said first and said second parts for conveying an energetic optical signal therethrough and through an exit port through which the optical signal passes. The protection system includes a detector for locating a threat; an electronic and control system connected to said detector for receiving a signal from said detector; a laser connected to said electronic and control system; and a jam head including at least two independently rotatable parts and a tracking scanner connected to said laser and to said electronic and control system for sending a laser burst at the threat in order to disable/disorient same, said jam head comprising a unitary glass fiber of constant core diameter passing from the laser to and through said first and said second parts for conveying an energetic optical signal.

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